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Reply to:

Scott Parke **ASTM Test Monitoring Center** 6555 Penn Avenue Pittsburgh, PA 15206

November 5, 2001

The Data Communications Committee

Enclosed are the combined minutes of the Data Communications Committee and Electronic Data Transmission Methods Subcommittee meetings held in San Antonio, TX, on October 18, 2001.)

> Scott Parke Secretary, DCC

Attachments

MEETING MINUTES

DATA COMMUNICATIONS COMMITTEE and ELECTRONIC DATA TRANSMISSION METHODS SUBCOMMITTEE

HELD OCTOBER 18, 2001 SOUTHWEST RESEARCH INSTITUTE, SAN ANTONIO, TEXAS

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The Electronic Data Transmission Methods Subcommittee (EDTM) and Data Communications Committee (DCC) meeting were held consecutively on the same day. As was the case for the last meeting, the DCC secretary agreed to serve as secretary for the EDTM subcommittee. The minutes of the proceedings for both meetings are combined in this single document.

8:40 EDTM CALL TO ORDER

DCC Chairman Frank Farber called the meeting to order and made several brief announcements regarding the day's schedule. He reviewed the meeting agenda (attachment 1) and membership list and attendance sheet (attachments 3 and 2, respectively) and then turned the meeting over to EDTM Chairman Dave Hood. Later in the day, the minutes of the April meeting were approved as published.

8:43 EDTM RECOMMENDS SSL TO DCC

Dave Hood reported that the EDTM held several conference calls since the last physical meeting in April. Notes from these calls are shown as attachment 4. The result of theæ calls was the decision to recommend that the DCC adopt Secure Socket Layer as a replacement for X.400 transmission protocol.

Dave made a presentation outlining the work of the EDTM that lead to this decision (attachment 5).

9:00 SSL DEMO

As part of Dave Hood's presentation, Jeff Robinson and Mike Kahn presented a demo of some of the work that Chevron Oronite has done to date (pages 8-12 of attachment 5). They first demonstrated how manual file transfer might work and then showed an automated version.

Mike and Jeff fielded several questions during the demo. Of particular interest was what third-party software was necessary to duplicate the functionality of the demo. Siteminder is the software used to handle the login/authentication process. For the demo, login was done manually. Mike conceded that automating this will require some cleverness on the part of the transmitting party but should be possible. Two other pieces of software used were SAX-File and SA-FileUp both produced by Software Arts. The manual transfer can be done using SA-FileUp alone but automating things requires SAX-File.

Mike felt that that development was coming along nicely but that there were still some issues to be

resolved. For example, after transfer the original files still reside at the sending location; this will cause them to be re-sent again on the next transmission.

John White asked what controlled the contents of the log file produced during a transfer (shown at the top of page 11 of attachment 5). Mike replied that the entirety of the contents of the log file was developer-controlled.

Some questions remained but generally dealt with details that all agreed could be worked out later. The demo concluded, Dave Hood wrapped up by discussing some of the nuts-and-bolts necessary to implement the methods shown in the demo (remaining pages of attachment 5).

10:00 BEGIN DCC MEETING

Based on the recommendation of the EDTM, Dave Hood moved that SSL be adopted as the replacement for X.400 and that the DCC focus its efforts on implementing SSL. This motion was unanimously approved (7 for, 0 against, 0 waive).

With that motion approved, Dave then moved that the DCC consider the work of the EDTM to be concluded and that EDTM be disbanded. This motion was also unanimously approved (7-0-0).

And, finally, Dave moved that a *new* sub-panel be formed to carry forward the actual implementation of SSL. This motion, too, was unanimously approved (7-0-0). Dave agreed to head this sub-panel (to be dubbed the SSL Standardization Sub-Committee or SSL SSC) and urged all parties to participate actively in it explaining that in order for this course of action to be successful *all* companies must embrace it.

10:20 DATA DICTIONARY UNITS & DESCRIPTIONS – APRIL MEETING ACTION ITEM

DCC Chairman Frank Farber reviewed the action items from the April meeting. The TMC has ceased automatically appending the units field to the description field. Mark Griffin reported that the process used to do this has been largely successful but still exhibits the occasional glitch.

10:25 EXTENDED LENGTH TEST TASK FORCE

Mark Griffin distributed notes from the teleconference that his task force on extended length tests held on October 11 (attachment 6).

Frank Farber described some of the complications the inclusion of data dictionaries and report forms in the various standards/test procedures has been causing. For example, full D2 balloting is required every time a change is made to a report package that is included in a standard or test procedure. Frank pointed out that in the case of the IIIF test, balloting is not necessary because that test procedure only refers to the TMC as the supplier of the report package, it does not actually *include* the report package. He also explained that there has been some controversy of late as to whether or not it was permissible for a test standard to provide direction on the running or reporting of non-standard (extended length) tests.

Since the IIIF report package is *not* part of the test procedure, Sally Lloyd moved that the DCC direct TMC to request that the IIIF surveillance panel allow the DCC (through its extended length test task

force) to develop rules and systems for handling extended length IIIF tests. The motion was unanimously approved (7-0-0).

Some discussion followed regarding the notification process used for report package changes not requiring information letters (e.g. IIIF). All acknowledged that a formal system with a recognized title (a la the "Information Letter" system) is desirable. Mark Griffin moved that the TMC be directed to develop such an analogous system for report package changes. The motion received unanimous approval (7-0-0).

11:10 BETA TESTING PRIORITY

Frank Farber reviewed the beta testing priority list (attachment 7). The L-10 injector test was removed and some of the dates were shuffled.

11:21 REPORT FORM AND DATA DICTIONARY STATUS

Frank Farber presented the report form and data dictionary status (attachment 8). He pointed out that IVD is currently awaiting action by the EPA (page 2).

11:35 TELECOM/FAX SUMMARY

Frank Farber reviewed the telecom/fax summary shown in attachment 9. He noted that there has been a marked improvement in the proportion of tests electronically transmitted to TMC due largely to the effort that is finally being made to get the bench tests transmitted electronically.

11:42 DEFINITION OF "EFFECTIVE DATE"

Mark Griffin wished to clarify everyone's understanding of the intended meaning of "effective date" as it pertains to implementation of report package changes. Some parties have made comments implying that they were misconstruing "effective date" to be a deadline by which the changes had to be implemented. After polling the panel (attachment 10), Mark reiterated that "effective date" is the date on which a change must be made, not by which it must be made. All present seemed to be clear on this distinction but agreed that they may need to re-disseminate this information to others within their companies.

Part of the driving force behind this discussion was the general feeling on the part of the T-10 and M11EGR surveillance panels and users of those tests that the currently-pending changes on those report packages have been given an effective date much later than they would like. Frank Farber queried the panel about the feasibility of moving this date up. All panel members agreed to investigate how quickly they might be able to implement those changes given the pressing demand.

Addendum: the week after this meeting, the panel agreed via email to change the effective date on these two report packages to November 2 for M11EGR and November 10 for T-10.

13:09 PARTIAL TRANSMISSIONS

ETRTM rule 2.2 requires that, except for aborted tests, all transmissions include all fieldnames defined in the data dictionary even if the data for a field is blank. This is intended to allow the receiver

to verify that he received a complete transmission. However, this creates a difficulty for labs that want to transmit data before the entirety of it has been checked or validated For example, Mark Griffin would like to be able to transmit test results *after*, say, oil analysis data has been entered but *before* that data has been verified. He would like to drop the unverified fields from the transmission and proposed several wording changes to 2.2 (attachment 11). Frank Farber polled the panel as to whether or not receiving a seemingly incomplete transmission would pose difficulties for anyone's system. Three said it would; three said it wouldn't. All agreed to investigate the impact on their systems and then vote on a proposal that Mark Griffin will circulate via email.

Addendum: The panel approved via email ballot the wording labeled "OPTION 2" in attachment 11.

14:15 TMC DEMO OF .PDF

As discussed during the April meeting, TMC has continued to investigate Adobe's .PDF format as a replacement for JetForm. Tim Farley from the TMC presented a proof-of-concept demo that uses the same .PDF file for screen presentation, data entry, and printouts (attachment 12). Scott Parke asked how many of the labs are continuing to use JetForm and of those, how many use the JetForm format files as produced by the TMC. Lubrizol and Southwest Research were the only two to reply that they use JetForm but each of them either modify the TMC-supplied forms or create their own versions from scratch. Jody Fromer said that Lubrizol would be very interested in pursuing .PDF. None of the parties present had any reservations about transitioning away from JetForm.

15:11 M11 EGR TRANSFORMED UNITS FOOTNOTES

Frank Farber showed a problem that has come up reconciling units of measure and transformed units on form 4 of the M11 EGR test (attachment 13). After some discussion, it became apparent that this could be resolved by relocating some of the footnote "B" notation. Frank, Jeff Clark and the TMC will change form 4 for the next release of the M11 EGR report package.

15:15 ETRTM REVIEW – SECTION 1.12

Mark Griffin proposed a motion change section 1.12 to increase the length of ALTCODE1, ALTCODE2, and ALTCODE3 to 15. The motion was unanimously approved (7-0-0).

Sally Lloyd requested that LABOCODE also be increased to a length of 15. This was also unanimously approved (7-0-0).

Addendum: In the days following this meeting, Mark Slepsky asked that the panel members consider that with the data type of TESTLEN being Z and the length being 3, the EDTM convention of providing room for a sign and decimal is violated. The panel agreed via email ballot to expand the length of TESTLEN to 5.

15:25 OBJECTIVES REVIEW

Frank Farber reviewed the DCC objectives. The panel adjusted the priorities as shown in attachment 14. A preliminary report from the newly-formed SSL SSC was made a high priority targeted for April 2002.

15:40 NEXT MEETING AND ADJOURNMENT

The next meeting is tentatively scheduled for the week of April 25, 2002 in Cleveland, OH.

ACTION ITEMS

TMC

- 1) Request IIIF surveillance panel permission for DCC to work on extended length data dictionary issues for IIIF.
- 2) Develop an "Information Letter" system analog for notification of report package changes where the change does not require an information letter.
- 3) Revise M11 EGR form 4 footnote "B" for transformed units.
- 4) Continue investigating Adobe Acrobat as a JetForm replacement.

SSL SSC

1) Prepare a preliminary report for the April 2002 meeting.

All

1) Work on garnering support for SSL implementation within your organization.

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Reference

ASTM Data Communications Committee Meeting Attachment

October 18, 2001

At the Conclusion of EDTM - 5:00 pm Southwest Research Institute

Auditorium of Building 160

(it's the one across the road from the cafeteria)
San Antonio, TX

- Call to Order Agenda Review
- 2. Membership Changes
- 3. Approval of April 26, 2001 meeting minutes
- 4. Review Scope
- 5. Review Action Items From Last Meeting

ACTION ITEMS

TMC: 1) Change data dictionary programming to end automatic appending of units column to description column.

2) Continue investigating Adobe Acrobat as a JetForm replacement.

Mark Griffin: 1) Form a Task force to devise conventions to govern data reporting for extended length and non-standard tests.

6. Data Dictionary Construction Status

Priority of next test areas
Report Forms/Data Dictionary Memos/IL's
TMC Telecom Test Summary
ETRTM Review
Transmission Of Truncated Flat File – Mark Griffin

- 7. EDTM Subcommittee Report David Hood
- 8. Review Objectives
- 9. New Business

Adobe PDF Presentation – TMC
Data Dictionary/ Report Form Effective Dates

M11EGR Transformation Units

10. Adjournment

DCC Meeting #28 Attendance List (October 18, 2001 San Antonio, TX)

			l elepnone	
			Fax	
Name	Company	Address	Email	Present
Michael Burke	ExxonMobil	P.O. Box 480	609-224-2441	элень
		r adisporo, No 00000-0400	003-224-3011	
Graham Fisher	Oronite Chevron	Chevron Chemical SA	0146393639	
		79 RucArotole France		-
			GRLF@chevron.com	
Frank Farber	ASTM Test Monitoring	6555 Penn Avenue	412-365-1030	7
	Center	Pittsburgh, PA 15206	412-365-1047	7
			fmf@tmc.astm.cmri.cmu.edu	126
Jody Fromer	Lubrizol Corporation	29400 Lakeland Blvd	440 043-1200 x5172 3un-5172	5
		Wickliffe, OH 44092		7
			jjf@lubrizol.com	- -
Mark Griffin	Southwest Besearch	6220 Culebra Road	210-522-3502	1717
		San Antonio, TX 78228	210-	- 122
	Institute		mgriffin@swri.edu	C
Francisco Gonzalez	Registration Systems, Inc. /	4139 Gardendale Suite 205	210-545-1889	
	ERC	San Antonio, TX 78229	210-341-4038	
			cisco@txdirect.net	
Renee Hausermen	Infineum USA LP	P. O. Box 735	(908) 474-3139	
$\left\langle \right\rangle$		Linden, NJ 0703		
			Renee.Hauserman@Infineum.com	
David Hood	Chevron Chemical	100 Chevron Way	510-242-3345 7965	ě
	Company- Oronite Global	Richmond, CA 94802-0627	510-242-2400 (1 hour on except)	ر ارو
	Technology		daho@c hevron.com	A.
Michael Kahn	Chevron Ghemicat	100 Chevron Way	510-242-2717	?
	Company. Oronite Clobal.	Richmond, CA 94802-0627	510- TENTO	1
	Technology		mjka@chevron.com	L
Sally Lloyd	PerkinFlmer Automotive	5404 Bandera Road	210-523-4611	0
	Research	San Antonio, TX 78238	210-523-4633	4
			Sally Lloyd@PerkinElmer.com	۶ :
			17 10 0 11 1 0]

Sally. Lloyd @ Perkin Elmer. com

Attachment

Page Reference

DCC Meeting #28 Attendance List (October 18, 2001 San Antonio, TX)

			Talanhana	
			اعتطارات	
			Fax	
Name	Company	Address	Email	Present
Scott Parke	ASTM Test Monitoring	6555 Penn Avenue	412-365-1036	1
	Center	Pittsburgh, PA 15206	412-365-1047	M
			sdp@tmc.astm.cmri.cmu.edu	?
Maryse Shull	Ethyl Corporation	500 Spring Street	804-788-5280	
		Richmond, VA 23218	804-788-6358	
			maryse shull@ethyl,com	
Don Silver	Valvoline Inc	P.O. Box 391	606-329-5809	
		Ashland, KY 41114	606-329-5155	
			dwsilver@ashland.com	
Mark Slepsky	Lubrizol Corporation	29400 Lakeland Blvd	440-943-1200 Ext 2801	
		Wickliffe, OH 44092	440- 943-9041	
			mgs@lubrizol.com	
John White	Southwest Besearch	6220 Culebra Road	210-522-2434	(
		San Antonio, TX 78228	210-	ー 3 ブ
	Institute		jwwhite@swri.edu	

Attachment	
Page	2/3
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Attachment 2
Page 3/3
Reference

	Include on	Malling List?		Sah	coh	Yes			
Phone	Fax	Email	417-365 -1022 TJF @ tmc.ostm.cmoi.gr.	804-739-9536 & Fax Jwbecksi@home.com	liva. Barnabishvili O Infireum	210-522-3343 210-684-7523 Crichtberg@Swri.edu			
		Address	6555 Bonn Am P. Hsburn pA 15-206	5903 Rosebay Forest PL 804-739-9536 & Fax MIDLOTHIAN, VA 23112 Jubockisi@ home.com	1900 Linden Ave Linden NJ 07036	6230 Colebra Road San Antonio, Tx 78338			
	·	Сотрапу	TMC-ASIM	RSI	Infineum	Swret			
		Name	Tim Facks	John Bock	Liha Barnabishvili	Christopher 17, chtberg	•		

Attachment 3
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Reference

DCC Member List

Voting Members				
Scott Parke	ТМС			
Michael Burk	ExxonMobil			
Mark Slepsky	Lubrizol			
Mark Griffin	Southwest Research Institute			
Lika Barnabishvili	Infineum			
Maryse Shull	Ethyl Petroleum Additives			
Mike Kahn	Chevron Chemical Company			
Sally Lloyd	PerkinElmer Automotive Research			
Don Silver	Valvoline Inc.			
Ralph Grace	Imperial Oil Inc.			
Non-Voting Members				
Frank Farber	TMC			
Jody Frommer	Lubrizol			
David Hood	Chevron Chemical Company			
Chris Richtberg	Southwest Research Institute			
John Beck	RSI/ERC			
John White	Southwest Research Institute			

Electronic Data Transmission Methods HTTPs Sub-Committee Meeting Agenda

Attachment	4
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Time: 12pm -1:30pm PDT

Meeting Date: Tuesday, August 14, 2001

Duration; 1.5 Hours

Expected Meeting Attendees: Frank Farber, Mark Griffin, Bill Mahoney, Sally Lloyd, Jody Fromer, Lika Barnabishvili,

Maryse Shull, and David Hood. Phone Bridge: 925-842-7560

Meeting ID: 2084

Meeting Objectives: The primary objective is to review status of the Chevron Oronite SSL web site and the

Ethyl/PerkinElmer Secure ftp prototype projects. Updating any work done since the last meeting, in preparation for our

October DCC.

Note: This is work directed by the EDTM subcommittee of the DCC. Our role is to guide the prototype activity to insure it meets the needs of the participating additive companies and labs. The EDTM subcommittee's responsibility is to

make a recommendation to the DCC for a new EDTM Standard for the ASTM

Time	Topic & Leader(s)	Desired Outcome or Understanding
12pm PDT	Introductions & Confirmation of Meeting Scribe All	Confirm all attendees.
12:05 PM	Review/Adjust Agenda D.Hood	Insure all topics are represented with adequate time. Add items not previously identified.
12:10 PM	Where we are & how we got here D.Hood	All agree on where we are in the process to make recommendations to the DCC. 1. Confirm Participants 2. Agree on a Scope 3. Identify Method Requirements 4. Identify Potential Solutions 5. Data Gathering 6. Analysis of Methods 7. Present Summary to Subcommittee
		Make Recommendations(s) to Data Communication's Committee
12:15 PM	SSL Web Prototype Status & Next Steps D. Hood, SwRI, and PE	Report any new information on the SSL Prototype. Determine if any of this information changes our process or plans. Date Script to Labs: Sept. 14 SSL Conference Call: by Sept. 26 th EDTM Conference Call: by Oct. 12. DCC: Oct. 18
12:45 PM	ftp Prototype discussion Ethyl, PE, and all	Report any new information on the secure ftp solution.
12:50 PM	Open Discussion on Next Steps	Allow time for open discussion.
1:00 PM .	Discuss Date and Location for next EDTM. All	Recommend having this the morning session of the DCC
1:10 PM	Adjourn All	

Electronic Data Transmission Methods HTTPs Sub-Committee Meeting Agenda **SSL Meeting Minutes** Tuesday August 14, 2001 12:00pm - 1:00pm PDT

Attachment	4
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Reference	

Attendees: Frank Farber (TMC), Mark Griffin (SwRI), Bill Mahoney (ERC/RSI), Sally Lloyd (PE), Jody Fromer (Lubrizol), Lika Barnabishvili (Infinium), Maryse Shull & Steve Peterson (Ethyl), and David Hood & Jeff Robinson (ChevronOronite).

Minutes by D.Hood (Chevron Oronite), edited by M. Griffin (SwRI)

12:05: Call for attendance and Introductions

No Changes to Agenda

12:10: Project Plan Update

Chair provided update on where Project is regarding process plan (see 12:10PM Item on Agenda). We are currently on steps 5 and 6, developing the SSL prototype, still preparing to make an EDTM recommendation to the DCC at the fall meeting.

12:15: Current status of SSL prototype at Chevron Oronite, SwRI, and PE:

Oronite's SSL application developer visited San Antonio labs on July 31st to provide automation expertise for SSL solution. It was determined that Oronite would provide VB script to labs as a proof of concept. The scripting will be based on utilities and component decisions Oronite had made when constructing their SSL site. These are specifically file utilities, information protection, authentication and verification.

Oronite also noted that they will take some further liberties with standards, primarily based on directory structure and file naming. All of the decisions that they make when constructing this script have been discussed at the EDTM level.

Oronite noted that all participants believe that SSL is the appropriate solution for our industry, the prototype is being developed to insure automation and identify any red flags.

The following timeline was discussed and what was agreed to by the end of the conference call.

Script to Labs (PE and SwRI): Sept. 14th, 2001

SSL Conference Call to review: Sept. 26th (no later than)

Communication to EDTM from SSL (Chair), on current status of prototype work & recommendation from EDTM to DCC on SSL solution.*

EDTM Conference Call to discuss Communication from SSL Team: Oct. 12th (no later than) Note: SSL Team is hopeful that we can vote to make this the EDTM recommendation to DCC during this Conference Call.

*- Suggestion by Bill Mahoney that SSL was the EDTM subcommittee's selection by default, led to this definition. He based this primarily on Ethyl's proclamation of lack of interest in Secure ftp and Chevron Oronite's comment regarding information protection/security issues through firewalls using Secure ftp. The participants agreed.

Chevron Oronite asked all additive companies, labs, and TMC for comments on any phase of the prototype work or next steps as defined above, and non were offered. Some specifics questions were asked and settled at that time. Basically, the group endorsed the work to proceed as planned. No suggestions for change were made.

12:40: Secure *ftp* work was put on hold (See note above)

2001EDTM0814AgendaandMinutes.doc

Electronic Data Transmission Methods HTTPs Sub-Committee Meeting Agenda

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12:45 Open Discussion and Next Steps.

Scripting clarification and comment provided by Ethyl was based on ftp and SSL scripting being conceptually similar solutions. Chevron Oronite agreed.

Frank Farber asked Chevron Oronite if they could utilize/publish the white paper they had developed for this project. Oronite suggested that the EDTM, DCC, or other subgroup work on making it a generic document for publication as part of the ASTM DCC standard. All agreed that was the best way to proceed and could begin in or around the Fall DCC Meeting.

Frank also inquired about TMC's need for some of the scripting work being done, and we think that as a data consumer that will not be necessary, but it is an issue to be determined.

Mark Griffin noted that he attended a Borland Symposium that had some vendor that solicited utilities that could provide solution(s) for those that wish to automate but not write the scripting themselves. The software name is IP*WORKS, and their website is http://www.nsoftware.com

Electronic Data Transmission Methods HTTPs Sub-Committee Meeting Agenda

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Time: 10am -11:30pm PDT

Meeting Date: Tuesday, October 8, 2001

Duration: 1.5 Hours

Expected Meeting Attendees: Frank Farber, Mark Griffin, Bill Mahoney, Sally Lloyd, Jody Fromer, Lika Barnabishvili,

Maryse Shull, Mike Kahn and David Hood.

Phone Bridge: 925-842-7555

Meeting ID: 1617

Meeting Objectives: The primary objective is to:review status of the SSL web solution project.

- Determine/Agree that we are prepared to recommend the https solution to the DCC.
- Determine any further work this group needs to do.
- Agree to recommend a timeline to include beta test and final implementation to DCC

Note: This is work directed by the EDTM subcommittee of the DCC. Our role is to guide the prototype activity to insure it meets the needs of the participating additive companies and labs. The EDTM subcommittee's responsibility is to make a recommendation to the DCC for a new EDTM Standard for the ASTM.

Time	Topic & Leader(s)	Desired Outcome or Understanding
10am PDT	Introductions & Confirmation of Meeting Scribe All	Confirm all attendees.
10:05 AM	Review/Adjust Agenda D.Hood	Insure all topics are represented with adequate time. Add items not previously identified.
10:10 AM	Review current Oronite work and project status. D.Hood	Inform SSL group of: what has been done and what still needs to be resolved Issues identified/lessons learned Plans for completion and distribution of information.
10:25 AM	Report on ATC QMWG meeting (9/25/01) D.Hood & B.Mahoney* *-Bill is welcome to add his comments	Report decisions/recommendations made during our European partners last meeting and identify impact.
10:40 AM	Open discussion on moving forward with recommendation to DCC. All	 Identify any issues that need to be resolved before making recommendation to DCC. Determine if any of these will negate a decision to recommend SSL to DCC.
10:55 AM	Next Steps All	If the answer to previous topic is move to recommend, then: Identify next steps Agree on timeline for completion
11:10 AM	Can we recommend timeline for implementation All	Note: this request is only in general terms to give labs , TMC, and ERC?RSUI a feel for when they need to be ready to go.
11:30 AM	Adjourn All	

Electronic Data Transmission Methods HTTPs Sub-Committee Meeting Agenda

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EDTM/SSL Meeting Minutes 10/9/2001

Introductions & Confirmation of Meeting Scribe

Meeting Attendees: Mark Griffin (SwRI), Bill Mahoney (ERC), Francisco Gonzalez (RSI), Sally Lloyd (PE), Jody Fromer (Lz), Lika Barnabishvili (Infineum), Maryse Shull & Steve Peterson (Ethyl), Mike Kahn, Jeff Robinson and

David Hood (Chevron Oronite)

Scribe: D.A. Hood

Review/Adjust Agenda

No Adjustments to meeting were recommended.

Review current Oronite work and project status

Chevron Oronite has estimated 80 completion of automated data transfer using https on a development server. Complete:

- 1. Coded automation for file transfer utility (SAFileup)
- 2. Creates text log-file of all transferred data and places on data supplier and consumers server.
- 3. We had to build a "workaround" for SiteMinder (authentication software) as we were unable to get the software in what we would consider a reasonable time.

Note: filenames, directory structure, utility standards were "assumed" to build prototype to this point.

To Do

- We hope to have a server with SiteMinder and VeriSign installed for our planned demo. on October 18th. (MKahn & JRobinson)
- 2. Test tool outside Chevron Oronite's firewall. (ChevOro, SwRI, and PE)
- 3. Distribute to labs for review/critique.
- 4. Identify areas for standardization discussion on 10/18 (MKahn)

Report on ATC QMWG meeting (9/25/01)

D.Hood read unconfirmed meeting minutes from 9/25 ATC-QMWG Meeting, in quotes below:

"4.2 Review of funding for alternative to X.400

The pros and cons of having a HTTPS secure website at the ERC were discussed. It was agreed that this would be necessary for the ERC especially in view of the fact that it will become the industry standard and that X.400 will eventually disappear. It was underlined that the ATC member companies present at this meeting want to continue receiving data directly from laboratories.

The issue of costs to implement the secure web site was discussed in some detail. The current ERC proposition would cost \$50,000 for the ACC and ATC; this would mean \$25,000 for the ATC. Maintenance costs would be absorbed into the current contract. The QMWG are in agreement in principal over the use of existing registration fee funds in order to pay for this if necessary and subject to ATC main-board approval. The QMWG will ask for some more detail regarding costs for the secure web site before approaching the ATC main group meeting on the 7th November.

Electronic Data Transmission Methods HTTPs Sub-Committee Meeting Agenda

Attachment	
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Reference	

Action GF to request additional details of the cost breakdown from the ERC."

Note: B.Mahoney, G. Fisher, and D.Hood to discuss details and present to relevant ASTM and ATC groups.

Bill Mahoney confirmed that Europe has embraced the https solution after almost one year of presentation, discussion, and finally concurrence. This solution has not been voted on by main ATC body, however they meet on 11/7/01, and it is anticipated they will formally approve after the 10/18/01 DCC approval.

Open discussion on moving forward with recommendation to DCC

Chevron Oronite, Lubrizol, Infineum, Ethyl, SwRI *, PerkinElmer, and ERC agreed to recommend https as the new EDTM solution to the DCC on October 18, 2001.

* - SwRI noted that approval was based on a reasonable timeline, and that all additive companies plan participation in the https solution.

D.Hood will summarize the EDTM's work with details still the DCC will need to develop a timeline. This includes identifying all issues that need standardization, tools required/recommended for each business function, and a general on costs expected for each (Additive Company, Lab, ERC/RSI**, and ASTM)

** - This has already been done, but more detail will follow. See previous subject note re: : B.Mahoney , G. Fisher, and D.Hood

Next Steps

Prepare to vote on https solution at October 18, 2001 Data Communications Meetings.

Chevron Oronite to provide Screen Scrapes of demonstrated https automation to aid committee in understanding standardization issues.

Prepare to discuss standardization issues for resolution and estimating first draft of timeline.

D.Hood recommended we develop a timeline to provide participating companies the incentive to move forward with this project due to the impending limitations and availability of X.400. Note: This is simply validation of the scope of the EDTM subcommittee.

Can we recommend timeline for implementation

See note above.

Adjourn

At approximately 11:10AM PDT

Attachment 5
Page 1/14
Reference

Electronic Data Transmission Method Subcommittee

Recommendation to Data Communications
Committee

DCC Winter Meeting

@ Southwest Research Institute
San Antonio, Texas

10/18/2001

D.Hood



Meeting Objectives

- DCC Preface
 - EDTM Scope & Objectives
- EDTM Requirements Matrix
- Prototype Selection
 - Review
- Recommended Solution
 - Identified Issues
- Issue Resolution



2

Attachment 5
Page 2/14
Reference

DCC Preface

As part of the Electronic Test Report Transmission Model (ETRTM) the ASTM Data Communications Committee (DCC) has specified two transmission protocols. The two protocols are X.400 and Internet FTP. Of the two, X.400 protocol is preferred method for proprietary data, for the following reasons:

Secure - Documents managed by secure systems

Traceable - Misrouted mail can be tracked down

Receipts readily available

Sender certified by originating e-mail carrier

Known path - Only handled by responsible commercial e-mail firms

Fast - X.400 standards require 95% of mail delivered within 45 minutes

However, the use of X.400 on a global scale is expected to decline over the next five years for reasons such as:

The rising use of the Internet and the World Wide Web Standards

The minimal resources being invested in X.400 product development by the world's leading e-mail software vendors

The lower cost of Internet e-mail

Most notably to electronic test report transmission trading partners, is that several European industry members do not have access to X.400 providers.

As a result, the DCC has formed the Electronic Data Transmission Methods Sub-Committee to investigate a suitable replacement protocol for X.400.



EDTM Formation

- Broad Representation*
 - International Additive Companies
 - Dependant Test Laboratories
 - Including International Lab Representation
 - Independent Test Laboratories
 - Domestic and European
 - Monitoring/Governing Agencies
 - Domestic and European
- * Ongoing effort by Additive Companies to align ATC and ASTM Standards



Attachment 5
Page 3/14
Reference

Initial EDTM Roster

Member
David Hood
Frank Farber
Mark Griffin
Bill Maboney
Francisco Gouzalez
Mike Eischen
Graham Fisher
Mike Kahn
Jody Fronter
Dan Himmelman
Thomas Gross
Michael SantaMaria
Dan Walker
Maryse R Shull

Company
Chevron Oronite Company, LLC
Test Montoring Center
Test Montoring Center
Southwest Research Institute
European Registration Centre
Registration Systems, Inc.
PerkinElmer
Chevron Oronite Company, LLC
Lubrizol Corporation
Lubrizol Corporation
ISP
ExxonMobil
Infineum USA L. P.
Ethyl Corporation

Email
daho@chevron.com
fint@tmc.asm.cmri.cmn.edu
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cisco@txdirect.net
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jif@lubrizol.com
drim@lubrizol.com
Th.Gross@iSPLABS.de
michael_santumaria@email.mobil.com
Dan. Walker@infineum.com
Maryse_Shull@Ethyl.com

Phone
510.242.3345
412.365.1030
210.522.3502
210.340.5635
210.341.2680
210.647.9489
0.11.33.1.46.39.36.39
510.242.2717
440.347.5157
0.11.49.59.76.94.75.30
609.224.2534
609.224.2534
804.788.5280



EDTM Process Path

- 1. Confirm Participants
- 2. Agree on Scope
- 3. Identify Method Requirements, Include EEG Requirements
- 4. Identify Potential Solutions, Create Short List
- 5. Data Gathering
- 6. Analysis of Methods vs.. Requirements Matrix
- 7. Present Summary to Subcommittee
- 8. Make Recommendations(s) to Data Communication's Committee



3

Attachment 5
Page 4/14
Reference

EDTM Scope and Objectives

Scope Statement

The subcommittee will develop an understanding of the methods currently available for electronic data transmission of the ASTM standard Flat File, or bench and engine test result data.

The methods identified must meet the requirements, needs, and expectations of the stakeholders (data providers and consumers), and will make a recommendation(s) to the ASTM Data Communications Committee based on this understanding

Note: This was the initial Statement form 8/2000 EDTM meeting.

In Simple Terms:

Find a replacement for X.400 utilizing current, scalable technology that is easily available to any/all participating companies.
(SEE DCC Preface)



Final Scope for EDTM

- · Scope Represented by:
 - EDT Methods Subcommittee Preface
 - EDT Methods Requirements Matrix



Attachment 5
Page 5/14
Reference

Requirements "Matrix"

- Provide Secure End-to-End Transmission
- · Internationally Available
- Audits
 - Known Path
 - Receipt FA
- Fits existing Standards
- Reasonably Priced



9

Solutions Identified

- Encrypted files over FTP
- VPN (extra net)
- · Encrypted e-mail
- Secured socket layer (HTTPS)
- Mask data
- ISP (encrypted tunnel)
- Internet e-mail (SMTP)
- Hire 3rd party to host secure web site
- · 3rd party app to package flat files
- · point to point modem
- mail diskettes/CD-ROM

Each representative on the sub-committee should go back to their companies and discuss these potential solutions



Attachment 5
Page 6/14
Reference

EDTM Solution "SHORT LIST"

- Secured Socket Layer (HTTPS) SELECTED for Prototype
- Encrypted files over FTP SELECTED for Prototype
- · VPN (extra net) Not selected based primarily on cost
- Encrypted e-mail Note selected based primarily on administrative issues



.

Prototype Decisions

- · Secure ftp
 - Decision to remove this solution based on some companies *Information Protection* rules regarding firewalls.
- SSL
 - EDTM agreed to reduce membership to an SSL "working group" in 3/2000.



12

Attachment 5
Page 7/14
Reference

Formation of SSL Team

EDTM agreed to reduce membership to an SSL "working group" in 3/2000.

This was a request from the Chevron Oronite prototype team to "expedite" development. As no other additive company could contribute resources to build an SSL site for testing, there were no objections.



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SSL Team Report

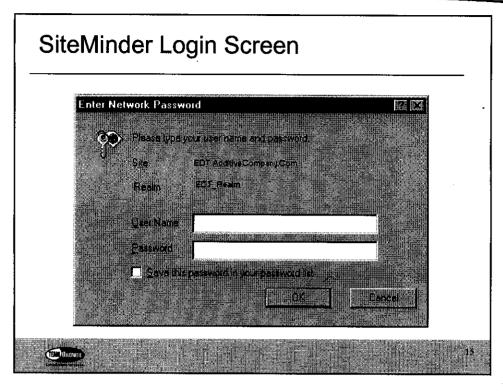
- Chevron Oronite demo's SSL site to DCC at Spring '02 Meeting.
- 100% EDT automation for the SSL Prototype was not completed due to unforeseen reallocation of planned resources.
- Team agrees to recommend SSL solution without completing EDT automation based on their technical knowledge.

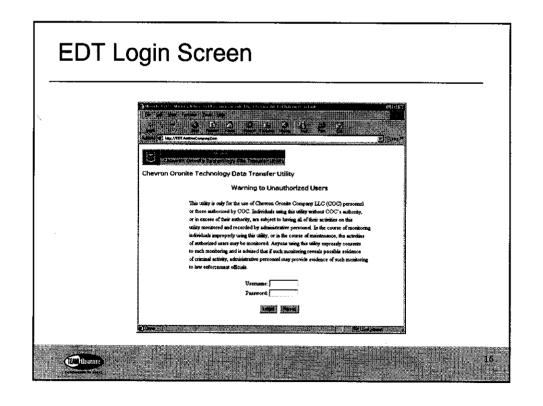
Note: Affirmative votes to recommend to DCC were made by Chevron Oronite, Ethyl, Infineum, Lubrizol, SwRI, PerkinElmer, and ERC. TMC was not available, but will have opportunity to vote during Oct. DCC



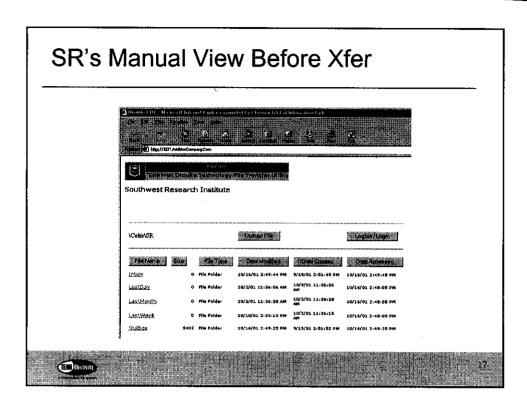
14

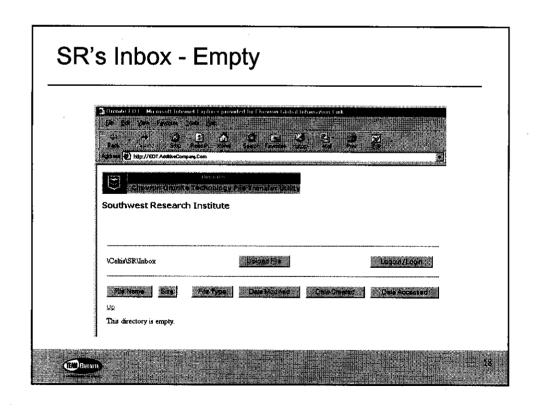
Attachment 5
Page 8/14
Reference

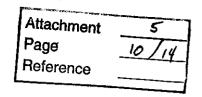


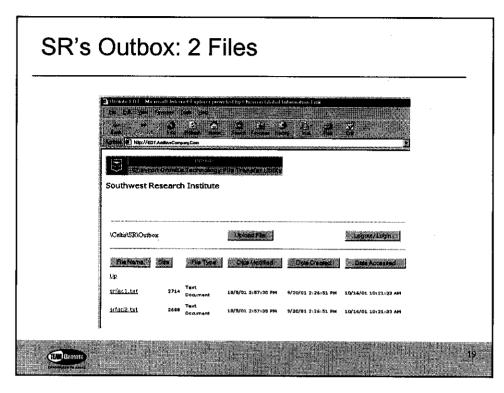


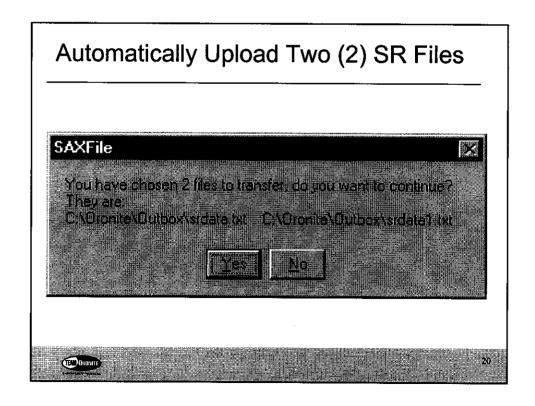
Attachment 5
Page 9/14
Reference



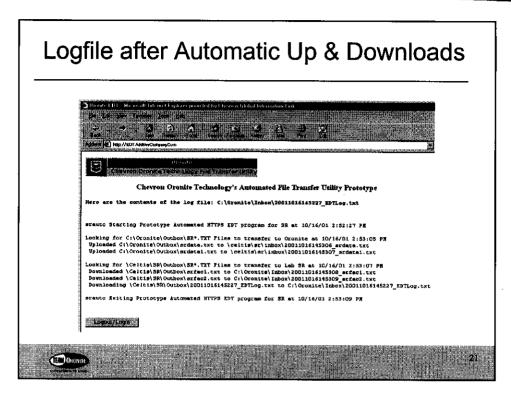


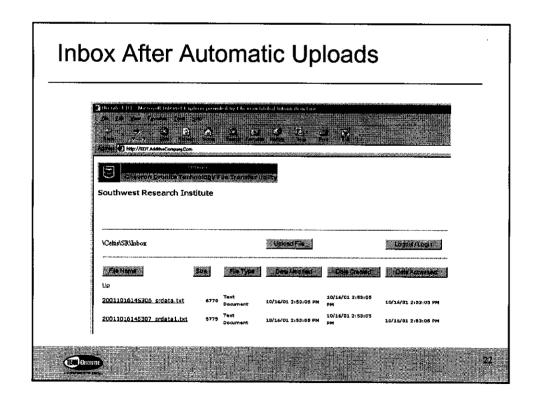


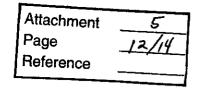


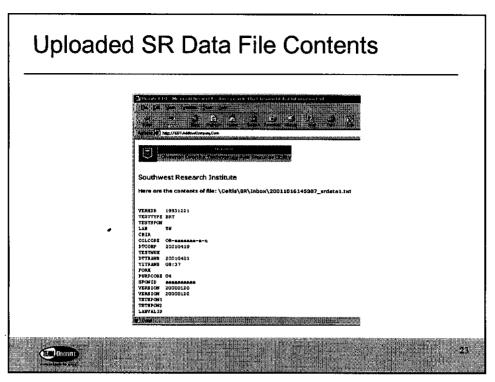


Attachment 5
Page 11/14
Reference









EDTM Recommendation

- Https solution for ASTM Electronic Data Transmission Method Standard
- Standardization & Implementation Issues Remain
 - DCC or EDTM



Attachment 5
Page 13/14
Reference

Standardization Issues Identified

- Filenames (filetypes)
- Directory Structure
- Upload Download Utilities
 - Vendors
 - Placement



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Implementation Cost Issues

- Hardware \$2-20K
 - requires any current Internet Browser
- Up-Download Utility
 - SA-FileUp License) \$179
 - SAX-File (multiple file xfer & others) \$399
- Authentication
 - Siteminder
- Security Certificate
 - VeriSign \$150 \$400



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Attachment 5
Page 14/14
Reference

Implementation Cost Issues, Cont.

Cost for automation of file transfer can be a somewhat significant variable depending on how flexible you want your system to be.

We estimate simple automation for file transfer (up&download) to range from \$3-5,000.



27_

EDTM Continue it's Work?

- Standardization & Implementation Issues Remaining for Implementation*
 - DCC or EDTM
- * Upon DCC approval.



9

Subject:

Teleconference meeting no. 1 held October 11,2001 1-2PM cdt

(minutes prepared by Mark Griffin)

Attachments: (1) Sub-committee meeting notification (2) Handout w/corrections

Attendees: Lika Barnabishvili – Infineum

Frank Farber - TMC Mark Griffin - SwRI

Mike Kahn - Chevron Oronite Sally Lloyd - PerkinElmer Chris Richtberg - SwRI Maryse Shull - Ethyl

Attachment	6
Page	1/6
Reference	

The meeting was opened by Mark Griffin with a review of the action item documented in the minutes of the April 26,2001 DCC meeting (no. 27), re: pg 6. The scope of this sub-committee shall be to develop conventions to extend the DCC protocol for governing test reporting and EDT of extended length tests and non-standard tests (i.e. additional data). The goal will be to introduce these conventions as a set of rules to be included in the ETRTM document.

During the previous DCC meeting (no.27), Frank Farber offered a suggestion to Mark Griffin that the TMC assume the role of administrator and provide the repository for any additional data dictionary definitions needed for the extended length and non-standard data. This proffer was re-iterated during the teleconference and Frank stated that he would need to obtain TMC authorization (to make it binding).

The need to decide upon making the required data definitions as part of the standard dictionary (report package) or using a supplemental dictionary was recognized. And, the need for static (all fields uniquely defined) or dynamic (reuse of field definitions) dictionaries was also recognized. Neither of these issues were resolved during the teleconference.

There were several scenarios discussed as possible solutions for the extended length test data. In no particular order here is the listed that the subcommittee brainstormed.

1. Use the same set of mnemonics with multiple data transmissions, one for each value of TESTLEN (for each test hour occurrence). The TESTTYPE value used would vary. The normal data dictionary TESTTYPE to be used for the flat file containing data for the normal (test procedure defined) test hours (e.g. IIIF), a modified TESTTYPE to be used for the flat file containing data for extended length tests (e.g. IIIFEXT).

- 2. Use data comm control triggers, surrounding each set of mnemonics with the "Actual hour" and "End group" (bookends) to represent each test hour being reported. This would mean the same mnemonic could appear more than once within the flat file.
- 3. Use truncated mnemonics (4 characters) and make all fields repeating (Hxxx), each data value to be reported would have a test hour association based upon the expanded mnemonic (xxx) suffix.
- 4. Use additionally defined mnemonics for all extended length test data. The repeating field specification would be extended to include all possible extended hour sample intervals. The definitions for all non-repeating mnemonics being used for intermediate test hours would be duplicated and assigned unique field names (hard-coded mnemonics, all possibilities are predetermined). This solution uses the current convention for the standard report package where all data is defined ahead of time.
- 5. Use a set of mnemonics that apply to end-of-test data with the hours value as part of the mnemonic.
- 6. Use a generic set of mnemonics defined as needed for the test report but not maintained as part of the standard report. I.e. N0, N1, N2, etc. for generic numeric fields and C1, C2, C3, etc. for generic character fields. The definitions for each would be agreed upon between trading partners. This would be used as a possible solution for proprietary data transmissions. This usage is reminiscent of the mutually defined fields for ANSI EDI.
- 7. Use a "joint" dictionary which contains a METHOD field definition (similar to the 1K/1N report package). The METHOD combined with the TESTLEN would be used to identify standard test and extended length test EDT files.

The need to use alternative solutions across test types was suggested. This would mean that no single solution would be the standard to follow for all test types. Making each possible solution a guideline, to be applied case by case per test type. E.g. use data comm control triggers and/or additional statically defined mnemonics for a given test type. (one flat file constructed using a combined set of solutions).

The following action items were agreed upon.

- 1. Begin work on a model test case for the development of extended length test solution(s). The IIIF was selected as the test type for the model.
- 2. Start drafting ETRTM rules.
- 3. Need to bring Lubrizol on board as a sub-committee member.

Meeting adjourned.



Attachment No 1.

Subject: Extended Length Testing EDT sub-committee

From: <MGriffin@swri.edu>

To: Incognito2@CTC@SwRI26[(Lika.Barnabishvili@Infineum.com)],

Incognito2@CTC@SwRI26[(Maryse_Shull@Ethyl.com)], Incognito2@CTC@SwRI26[(Sally.Lloyd@PerkinElmer.com)],

MGriffin@DataSys@SwRI08

CC: Incognito2@CTC@SwRI26[(fmf@TMC6.astm.cmri.cmu.edu)]

Reply To: Incognito2@CTC@SwRI26[<MGriffin@swri.edu>]

Date: 10/03/01 11:17 AM

Message Text: Message.htm,Message.txt Attachments: CLOSING THE EDT GAP.DOC

Headers.822

To all:

During the DCC meeting held last April, I presented a proposal for developing rules to be added to the ETRTM standard which will provide for the EDT of additional data that is reported (beyond what is defined with the current TMC report package). There were two conditions identified which call for additional data to be transmitted: (1) data being reported for extended length testing and (2) data being reported which is non-standard for the ASTM test procedure. Technically condition (1) can be considered as a special case of condition (2). The result of my proposal was the formation of a new DCC subcommittee, I accepted the chairperson position. Below is the subcommittee membership list:

Lika Barnabishvili - Infineum USA L.P. Mark Griffin - Southwest Research Institute Mike Kahn - Chevron Oronite Technology Sally Lloyd - PerkinElmer Automotive Research Maryse Shull - Ethyl Corporation

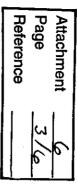
I have attached the handout (with correction) that I distributed during the meeting. Please correct me if wrong, I believe the first three bullet items were decided upon.

- +Acceptance by DCC
- +Administrator assignment
- +Repository selection

DCC voted on motion to solve the problem, which passed 8-0-0. Frank Farber offered (off-line to me) that the TMC could administrate and maintain a repository.

I have not had an opportunity until now to begin work on this project. Sorry for the delay.

I would like to conduct a one hour teleconference meeting of the subcommittee prior to this month's DCC meeting. The goal will be to map out the objectives



and open the floor to hear possible solutions (that may eventually be documented in the DCC rules). I do not expect that this first sub-comm meeting will resolve the problem, but at least we can get the ball rolling.

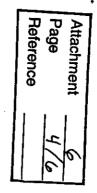
Please let me know ASAP which of the three dates will work for you.

Wed. 10/10/2001 Thur. 10/11/2001 Fri. 10/12/2001

I would propose a 1pm CDT start time for the call.

Thank You, Mark

Mark J. Griffin
SwRI - Automotive Products and Emissions Research Division
Data Systems - Principal Analyst
Tel: (210) 522-3502 Fax: (210) 684-7523 Internet: mgriffin@swri.edu
6220 Culebra Road San Antonio, Texas 78238-5166



Attachment No. 2

Preface

To date the task of implementing an EDT solution between trading partners has involved examining the hard copy test report and mapping test results located on every report page with data fields located in a data comm transmit file. This method of data definition has been driven by client generated requests received by the labs to include all of the data being reported in a test in an EDT file. Since the formation of the ASTM Data Comm Task Force (DCTF), and later the DCC, the focus has been refined (reduced) to review of only the official test report packet maintained by the ASTM Test Monitoring Center (TMC).

Attachment 6
Page 5/6
Reference

The current set of data dictionaries maintained by the TMC account for all of the data fields for a given test report as determined by the test procedure. While this approach satisfies the needs of reference test reporting, including the EDT file creation / transmission, it falls short of providing a complete solution for candidate (non-reference) test reporting. The labs and their clients must still develop additional definitions for data found on report pages (forms) which comprise the complete report packet. These additional fields will satisfy the need for reporting extended length test results, additional oil analysis data, ACC conformance data, additional rating and/or measurement results, etc. Basically, any data field not covered by the official test report / procedure.

The practice of working independent of the DCC for data definition to augment TMC developed report packets creates the potential for duplicate work among labs and their clients, who are working to achieve a common goal. The worst case being the creation of dissimilar definitions for the same data.

Proposal

Since most of the trading partners involved with the additional definitions also maintains a DCC presence, it makes sense for the DCC to adopt a standard solution that all trading partners can use.

Resolution

The DCC developed Electronic Test Report Transmission Model (ETRTM) provides a well defined protocol for data dictionary development and flat file transmissions. In order to maintain a standard among trading partners, the creation of any additional data definitions should adhere to the ETRTM. In fact, additional rules for the ETRTM would be required.

Extended Length Test / Non-Standard Test EDT Sub-committee

To make this proposal feasible, there are some key issues to resolve.

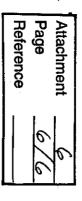
- Acceptance by DCC. For the proposal of developing new rules for the ETRTM to handle additional data (undefined by procedure).
- Administrator assignment. To perform the role that the TMC currently provides for the standard report packet. To include maintenance for beta and production releases of dictionary and forms.
- Repository selection. For the storage and retrieval of additional definitions by trading partners.
- Collection procedure. To obtain consensus on which additional field definitions are required. Should allow a provision for excluding client sensitive data (where applicable).
- Coordination method. To coordinate additional mnemonics with existing standard report packet mnemonic definitions. This is crucial if the additional data will be transmitted in the same EDT file.
- Version control. Need to determine how the link with the standard report definitions will be managed. i.e. Use common version?
- Composite vs. Supplemental dicitonary. Will the additional fields be maintained in a separate dictionary, or will they be appended to the standard dictionary (composite)?
- Other Issues?

Next Steps

The DCC acceptance issue should be resolved first.

If proposal is accepted, then the resolution of the remaining issues by sub-committee is needed. The ETRTM rules to handle additional data definitions will need to be drafted (also by sub-committee?) and voted for approval by the DCC.

Next, a target set of additional fields (e.g. extended test length data) should be selected for a current test type and the data definitions should be collected and beta tested.



Data Communications Committee Objectives

Stabilization of I	Data D	ictiona	Stabilization of Data Dictionaries - High Priority	
	Beta	Beta Team		Expected
Test Area	Le	Leader	Status	Completion
	SR	EG		Date
L10	_		Pending Beta Release	5-2001
TC1/TC2/TC3	7		Pending Beta Release	6-2001
M11-EGR		က	Completed	4-2001

Attachment	_ 7
Page	1/1
Reference	
Reference	

Attachment 8
Page 1/5
Reference

	Test Type	Report Layout Status	Data Dictionary Status	Report Package <u>Status</u>	industry Effective Date	Information Letter/ <u>Memo</u>	Current Dictionary Version	Date of DCC approval for use with electronic Transmission
			G	soline Te	śts: *			
1	IIIE	Approved	Approved		19940114	94-1	19940413	40040004
·			, pp. 0100		19940414	94-89	19940413	19940201 19940413
					19951129	95-1	19950725	19950725
					19960628	96-1	19960221	19960124
					19980331	98-1	19980202	19980202
				In production	19980331	98-1	19980403	19980202
2	VE	Approved	Approved		19941101	94-3	19940713	
					19950501	95-2	19950208	19950501
					19950901	95-5	19950530	19950530
					19961001	96-2	19960726	19960726
				1 d	19970310	97-2	19970130	19970109
				In production	19971124	97-5	19970902	19970902
3	L38	Approved	Approved		19951201	21	19950816	19950803
					19960201	22	19951002	19951002
					19960515	23	19960326	19960326
					19970404	25	19970129	19961024
				In production	20000315	30	19990621	19991123
4	IID	Approved	Approved	In production	19960415	96-1	19960206	19960213
5	VIA	Approved	Approved		19951101	95-1	19950818	19950818
					19960315	96-1	19960112	19960112
					19960916	9 6 -3	19960612	19960612
					19970402	97-1	19970225	19970124
					19980409	98-1	19971215	19971215
				1 do	19990208	99-1	19981006	Editorial
				In production	19991112	99-3	19990729	19990729
6	VG	Approved	Approved				19980708	19980708
							19980820	19980820
					19990503	99-56	19990412	19990412
					19991025	99-154	19990827	19991015
					20000215	00-1	20000112	20000127
					20000802	00-2	20000713	20000629
				in and other	20001101	00-3	20000831	20000914
				In production	20010206	01-1	20001214	20001222
7	IIIF	Approved	Approved				19981008	40004004
					10000404	00.20	19981221	19981221
					19990401	99-30	19990301	19990301
					20000713 20001113	00-103	20000629	20000706
				,	20001113	00-137 01-013	20001011	20001006
					20010201	20010615E	20010115	20010125
				In production	20010629	01-112	20010529	20010611
				in production	20010300		20010913	20010914
8	IVA	Approved	Approved			98-161	19980625	19980625
			•		400000	98-185	19980804	19980804
					19990216	99-5	19981201	19981201
				la aradication	19991015	99-142	19990716	19990716
				In production	20000801	00-2	20000126	20000519

Attachment 8
Page 2/5
Reference

Date of

	Test Type	Report Layout Status	Data Dictionary Status	Report PackageStatus	Industry Effective Date	Information Letter/ <u>Memo</u>	Current Dictionary Version	DCC approval use with electron Transmission	nic	
					20010716	01-01	20010418	2001????		
9	IVD	Completed	Completed				19971117	AWAITING	E PA	ACTION
10	VIB	Approved	Approved				19980810	19980810		
						99-44	19990303	19990303		
					19990430	99-82	19990427	19990427		
					19990924	99-1	19990625	19990625		
					20000901	00-3	20000626	20000714		
			•		20010301	01-009	20010105	20010116		
				In production	20011001	01-???	20010716	20010824		
11	VIII	Approved	Approved			98-156	19980609	19980609		
	-					98-180	19980805	19980805		
					19990416	99-1	19980820	19980820		
				In production	20000710	00-1	20000128	20000511		
				Diesel-Test	S					
12	Т8	Approved	Approved		19940727	94-1	19940615	19940301		
-		пристов	търготос		19950603	95-1	19950321	19950321		
					19960815	96-1	19960122			
					19971001	97-1		19960122		
							19970702	19970630		
					19980316	98-1 98-2	19980122	19980122		
					19980803 19980928	98-3	19980702	19980702		
							19980818	19980818		
				in production	19980928	98-3	19980902	19980818		
				in production	19990129	98-5	19981027	19981027		
13	1MPC	Approved	Approved		19950926	95-1	19950607	19950607		
				ė.	19980430	98-2	19980203	19980203		
				In production	19981109	98-4	19980922	19980922		
14	6V92	Approved	Approved		19940119	94-1	19940119			
		• •	• •		19990301	99-1	19981208	19981208		
				In production	19990601	99-2	19990414	19990414		
15	RFWT	Approved	Approved		19940901	94-1	19940503			
					19950903	95-1	19950606	19960606		
					19960701	96-1	19960326	19960326		
				In production	19961201	96-2	19960828	19960828		
16	1K/1N	Approved	Approved		19960731	96-1	19960808	19960816		
					19960923	96-2	19960913	19960913		
					19980828	98-2	19980701	19980701		
				In production	19981111	98-3	19980923	19980923		
17	M11	Approved	Approved		19971006	97-178	19970725	19970721		
		••	• •	4	19980202	97-258	19971113	19971113		
					19980202	98-25	19980129	19980129		
					19980731	98-1	19980604	19980604		
				In production	19990709	99-1	19981110	19981110		
40	M44E05	Anneur	A	ba						-
18	MITEGR	Approved	Approved	In production	asap 20011107	01-119	20010328 20010925	20010921		

Attachment 8
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Reference

	Test Type	Report Layout Status	Data Dictionary Status	Report Package Status	Industry Effective Date	Information Letter/ <u>Memo</u>	Current Dictionary <u>Version</u>	Date of DCC approval for use with electronic Transmission
19	1P	Approved	Approved				19970923	19970923
							19971015	19971015
					19971024	97-224	19971024	19971024
					19980601	98-51	19980302	19971223
				In production	19981102	98-1	19980921	19980921
20	1R/1Q	Approved	Approved		20010207	01-016	20010122	20010207
				In production			20010604	
21	Т9	Approved	Approved		19971013	97-183	19970822	19970822
					19980202	97-257	19971106	19971106
					19980803	98-1	19980601	19980601
					19981026	98-2	19980804	19980804
				In production	19990323	99-1	19981110	19981110
22	T10	Approved	Approved	In production	20010103	01-002	20010102	20010102
					20011114	01-118	20010924	20010921
23	EOAT	Approved	Approved	In production	19991101	99-1	19990803	19990803
				Gear Tests				
24	L60	Approved	Approved	•	19941120	IL-5	19941012	19950216
_,			Прричис	In production	19950918	IL-6	19950710	19950710
25	L42	Approved	Approved		19940903	IL-4	19940707	•
					19950823	IL-5	19950721	
					19960715	96-1	19960607	1996011 1
					19970317	97-1	19970305	19970305
				In production	19980302	98-1	19971211	19971125
26	L33	Approved	Approved		19941020	IL-3	19940909	
					19950819	IL-4	19950509	
					19960506	96-2	19960329	19960212
					19970602	97-1	19970411	19970331
					19970602	97-3	19970609	19970609
		·		In production	19980303	98-1	19971218	19971218
27	L37	Approved	Approved		19940829	IL-5	19940707	
					19950819	IL- 6	19950424	
					19960603	96-3	19960425	19960410
					-		19970902	19970902
							19971124	19971104
					19980309	98-1	19971223	19971223
					19980310	98-3	19980203	19980203
					19980901	98-4	19980605	19980605
				In production	19981116	98-5	19980908	19980908
					20011101	01-115	20010927	20010927
28	L601	Approved	Approved				19950201	19950216
							19950705	19950705
					19951115	95-1	19950912	19950912
					19960531	96-3	19960408	19950912
					19970530	97-1	19970411	19970411

Attachment 8
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Reference

	Test Type	Report Layout Status	Data Dictionary Status	Report Package Status	Industry Effective Date	Information Letter/ <u>Memo</u>	Current Dictionary Version	Date of DCC approval for use with electronic Transmission
					19970829	97-2	19970611	19970611
					19971107	97-3	19970902	19970902
					19981123	98-3	19980914	19980914
				In production	20000427	00-1	20000126	?
29	HTCT	Approved	Approved				19940809	
				,	19970324	97-1	19970128	19961104
					19980209	98-1	19971117	19971117
				In production	19980727	98-2	19980605	19980605
30	GST	Approved	Approved	Ready for Beta Testing			19980319	
				Bench Tests		: 1		
31	CBT	Approved	Approved		19961101	96-1	19960408	19960214
					19990129	98-3	19981102	19981102
				In production	20010315	01-1	20010118	20010206
32	HTCBT	Approved	Approved		19980306	98-146	19980306	19980306
		, ipp. 0.00	, фр. 6100		19990122	98-256	19981120	19981120
				In production	20010201	01-01	20010117	20010123
		•		р. о-сасион		0.0.	20010117	20010120
33	OSCT	Approved	Approved				19940216	
			.,				19960301	
					19971201	97-3	19970917	19970528
				In production	19980817	98-1	19980122	19980122
24	C I	Ammunicad	Ammanuad			•	40000400	
34	Gł	Approved	Approved	In menducation	40070246	07.00	19960403	40004000
				In production	19970315	97-20	19970128 20010926	19961203 20011005
							20010320	20011003
35	TEOST	Approved	Approved				19960221	
				In production	19970330	97-38	19970128	19970128
36	VGC	Approved	Approved			·	19960423	
				In production	19970614	97-87	19970416	19970416
37	FOAM	Approved	Approved				19960502	
0,	. 0/ 11/1	Apploted	приоточ				19980128	
				In production	19980422	98-67	19980306	19980306
						+-		
38	EVLO	Approved	Approved				19960403	
					19980123	97-270	19971107	19971107
					19980720	98-145	19980311	19980311
				In production	19990119	98-275	19981215	19981215
	LITEGO				4000000			
39	MIEOS	Approved	Approved		19980817		19980803	19980803
				the same of continue	00001455		19980820	19980820
				In production	20001120	00-142	20001013	20001013
					20010208	00-185	20001208	20001211
40	BRT	Approved	Approved	In production	20000308	00-014	20000120	20000127
41	EOFT	Approved	Approved	In production	20000804	00-116	20000713	20000803
••		· ppotos		iii production	2000007	VV-110	-20000110	2000000

Attachment 8
Page 5/5
Reference

Report Forms/Data Dictionary Status

	Test Type	Report Layout Status	Data Dictionary Status	Report Package Status	Industry Effective Date	Information Letter/ <u>Memo</u>	Current Dictionary Version	Date of DCC approval for use with electronic Transmission
42	EOWT	Approved	Approved	In production	20000804	00-117	20000720	20000803
43	D6417	Approved	Approved	In production	20001102	00-132	20000928	20000922
44	D5800	Approved	Approved	In production	20001107	00-133	20000926	20000928
45	D6082	Approved	Approved	Inproduction	20001109	00-136	20001002	20000930
			Tw	∕o∘Cycle Te	sts	<i>!</i>		
43	TC1	Approved	Approved		•			
44	TC2	Approved	Approved					
45	TC3	Approved	Approved					
	HDR ACK	Header Data Diction Acknowledgement I	nary used for Flat File Message Dictionary	Transmission	,		19931221 19980129	19931221

SP = Surveillance Panel

TF = Task Force (Test Type is under development and not considered an approved procedure)

Last Updated:

20011016

Reference Oil Test Transmission Summary 20010400 to 20010930

Attachment 9
Page 1/1
Reference

-			Reported	Tests
	Test	# Transmitted	<u> </u>	% Transmitted
Group	Туре	via ETRTM	Total	via ETRTM
	BRT	173	177	97.74
	CBT	26	26	100.00
Bench	D5800	32	38	84.21
Tests	D6082	15	15	100.00
	D6417	15	15	100.00
	EOFT	91	107	85.05
	EOWT	417	485	85.98
*	GI	46	51	90.20
	HTCBT	119	135	88.15
	MTEOS	33	34	97.06
	TEOST	6	6	100.00
	VGC	4	4	100.00
	1K1N	12	12	100.00
•	1MPC	17	17	100.00
1.	1P	1	1	_1
Diesel	1R	25	25	100.00
Tests	6V92	20	1	100.00
1000		•		
	L10	<u> : </u>	12	400
	M11	3	3	100.00
•	M11EGR	20	26	76.92
	RFWT	1	1	100.00
	T10	28	30	93.33
	T8	7	7	100.00
	T9	1	1	100.00
	IIIE	1	1	100.00
	IIIF	46	46	1000.000
-	IVA	22	22	100.00
Gasoline	L38	2	2	100.00
Tests	VG	20	20	100.00
	VIA	4	4	100.00
	VIB	117	117	100.00
	VIII	17	17	100.00
	HTCT	1	1	100.00
a garage de la composição de la composição La composição de la composição	L33	37	37	100.00
Gear	L37	17	17	100.00
Tests	L42	81	81	100.00
•	L601	36	36	100.00
•	OSCT		66	
	OSCTM		9	
Two-	TC1		11	
Cycle	TC2	<u> </u>	6	
Tests	TC3	<u> </u>	2	:
Totals	1	1511	1742	86.7

/docs/data_communications_committee/tmc_transmissions/P20010401_to_20010930

What are Industry Effective Dates?

A - "Deadlines" or B - "Start of usage" for specific dd versions.

Attachment 10
Page 1/1
Reference

The issue of when an information letter change can be implemented for the standard report package has been questioned. Some consider these dates as deadlines for meeting information letter requirements; allowing labs the option of implementation and usage of a report package as soon as possible (prior to the industry effective date). While others consider these dates as the start of usage date, based upon the test EOT date; anything that EOTs on or after the industry effective date would use the new report package version.

Company	В	Other
Chevron Temporal	V	
ERC		NUT PRESENT
Ethyl		NOT PRESENT
Exxon Mobil		
Imperial		NUT PRESENT
Infineum	V	
Lubrizol	U	
Perkin Elmer	V	
RSI	V	
SR	V	
TMC	/	
Valvoline		NOT IRES ENT

Data Communications Committee (DCC) Electronic Test Report Transmission Model (ETRTM

Attachment	_1/
Page	1/2
Reference	

Section 2 Flat File Transmission Format

	riat fue Transmission Format
****	**************************************
2.2	All field names with their corresponding data found in the data dictionary for the particular test being transmitted shall be included in the flat file if they either contain data or are blank. This requirement enables the receiver of the data to verify that the entire report was received without any transmission errors.
***	**************************************
2.2	All field names with their corresponding data found in the data dictionary for the particular test being transmitted shall be included in the flat file if they either contain data or are blank. This requirement enables the receiver of the data to verify that the entire report was received without any

needed to identify the test must be included and (b) for transmission of preliminary test data.

transmission errors. The only exceptions are (a) for an aborted test where only the information

2.2 The field names with their corresponding data found in the data dictionary for the particular test being transmitted shall be included in the flat file if they either contain data or are blank. The inclusion of all field names found in the data dictionary is optional.

- 2.2 The field names with their corresponding data found in the data dictionary for the particular test being transmitted shall be included in the flat file if they either contain data or are blank. The inclusion of all field names found in the data dictionary is optional.
 - 2.2.1 The total count of field name/data value lines shall be indicated in the TOTFLDS header field. This requirement enables the receiver of the data to verify that the entire report was received without any transmission errors.

Special Rules for header population:

2.8.5 TOTFLDS shall contain the total count of lines within the flat file following the header lines. The count for the header lines shall not be included.

Note: Since header fields are all mandatory there will be a fix header line count.

Attachment // 2/2
Page 2/2
Reference

ETRTM Section 2.2 optional changes

Option 1: Remove exception totally.

Option 2: Add preliminary test data as second exception.

Option 3: Remove "All fields" term and make inclusion of all fields optional.

Option 4: Create a TOTFLDS header field for line count and make inclusion of all fields optional.

TOTAL NUMBER OF FIELDS FOR THE FOLLOWING DATA DICTIONARY 7 150 99 HDR TOTFLDS

Attachment 12
Page 1/2
Reference

Online Viewing and Updating of Test Data

- Use Adobe PDF Forms as a front end for accessing a database.
- Available anywhere there is a connection to the Internet.
- Requires the use of Adobe Acrobat (full version) and a web browser.
- Does not require any additional installation of software.

Client Side Software

- Adobe Forms. Works as Plug in for Acrobat.
- · Web Browser.

Server Side

3

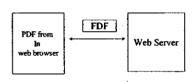
- · Lots more work involved.
- Adobe FDF Toolkit to parse and create FDF. Used in the Adobe Forms.
- CGI programming with web server. Could use Apache or IIS.
- Embedded SQL to move data into and out of database.
- Adobe IAC for automating Adobe Acrobat.

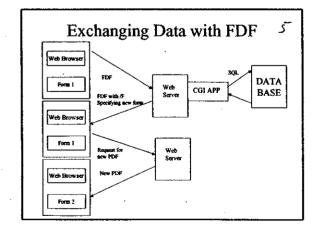
FDF

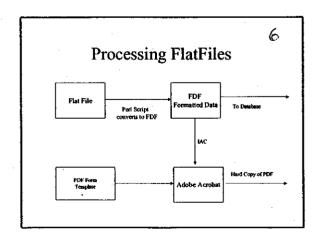
4

2

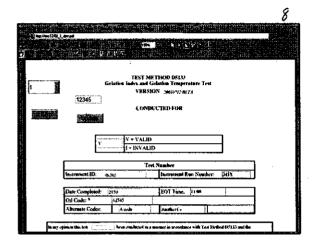
Similar to XML or HTML. Stores data used to modify a PDF file. Contains field, value pairs and data for buttons and widgets.







Attachment	12
Page	2/2
Reference	
i ,	



Capabilities of PDF forms

- JavaScript can be used for client based processing or calculation. Summation of numeric fields.
 Insertion of current date. Boolean choices; One field can determine behavior of another field.
- Built in validation, Can check for a range of values.
- Built in formatting. Can set number of decimal places.

10

Adobe Acrobat SDK

- FDFTK can used with Java, Perl, C.
- IAC can be used with Visual Basic, Perl and C or anything that supports the use of COM objects.
- · High level functions to parse and generate FDF.
- · Extensive Documentation.
- Free, Downloadable from http://partners.adobe.com/asn/developer/acrosdk/

M11 EGR LUBRICANT PERFORMANCE TEST Test Results Summary Form 4

Attachment 13
Page 1/2
Reference

Laboratory: LAB	EOT Date: DTCOM	EOT Date: DTCOMP		EOT Time: EOTTIME	
Stand: STAND		<u> </u>		Engine Run No.: ENRUN	
Formulation/Stand Code: FORM	<u> </u>		16		
Oil Code: OILCODE		Engine Kit S/N	1: ENKIT		
DATE TEST STARTED			DTSTR	r	
START TIME			STRTIM	ſE .	
TEST LENGTH			TESTLE	EN	
TMC OIL CODE A			IND		
LABORATORY OIL CODE			LABOC	ODE	
SAE VISCOSITY			SAEVIS	\overline{C}	
TGA SOOT % AT 50 h (2.8 minimum)			TGA050)	
TGA SOOT % AT 250 h (8.0 - 9.5)			TGA250)	
TOTAL OIL CONSUMPTION, kg			TOTOC	ON	
	Adjusted Average Crosshead Mass Loss (mg)	Filter Plugging Delta P (kPa)	Average Sludge Rating (merits)	Avg. Top Ring Weight Loss (mg)	
Original Result	ACWL	OILDP	ASRT	ARWLT	
Transformed Result B	TRNACWL	TRNODP	TRNASRT	TRNARWLT	
Correction Factor B	ACWLCF	OILDPCF	ASRTCF	ARWLTCF	
Corrected Transformed Result B	ACWLCOR	OILDPCOR	ASRTCOR	ARWLTCOR	
Severity Adjustment B	ACWL_SA	OILDP_SA	ASRT_SA	ARWLT_SA	
Final Transformed Result B	TACWLFNL	TODPFNL	TASRTFNL	TARWLT	
Final Result	ACWLFNL	OILDPFNL	ASRTFNL	ARWLTFNL	

	LAST STAND REFE	RENCE RESULTS		
TEST NUMBER: STAND - REN	GINE - RENRUN			
OILCODE		ROILCODE	····	
TEST LENGTH		RTESTLEN		
TMC OIL CODE		RIND		
EOT DATE		RDTCOMP		
EOT TIME		REOTTIME	·	
STAND CALIBRATION EXPIRATION	DATE	DTCALEXP		
TGA SOOT % AT 50 h (2.8 minimum)		RTGA050		
TGA SOOT % AT 250 h (8.5 - 9.5)		RTGA250		
TOTAL OIL CONSUMPTION, kg		RTOTOCON		
	Adjusted Average Crosshead Mass Loss (mg)	Filter Plugging Delta P (kPa)	Average Sludge Rating (merits)	Avg. Top Ring Weight Loss (mg)
Original Result	RACWL	ROILDP	RASRT	RARWLT
Transformed Result B	RTRNACWL	RTRNODP	RTRNASRT	RTRNARWT
Correction Factor B	RACWLCF	ROILDPCF	RASRTCF	RARWLTCF
Corrected Transformed Result B	RACWLCOR	RTODPCOR	RASRTCOR	RARWTCOR
Final Transformed Result B	RTCWLFNL	RTODPFNL	RTSRTFNL	RTARWLT
Final Result	RACWLFNL	RFPDPFNL	RASRTFNL	RARWTFNL

A Reference Tests Only

^B Transformed Units

Frank Farber

From:	-	
Sent:		
To:		
Subject:		

MGriffin@swri.edu

Monday, September 24, 2001 10:29 AM fmf@TMC6.astm.cmri.cmu.edu

RE: m11egr report forms and data dictionary revisions

ttachment	
age	2/2
eference	

Yes, Unless there is some strong reason not to, I believe that it would be appropriate to match the footnote. Mark

Mark J. Griffin

SwRI - Automotive Products and Emissions Research Division

Data Systems - Principal Analyst

Tel: (210) 522-3502 Fax: (210) 684-7523 Internet: mgriffin@swri.edu

6220 Culebra Road San Antonio, Texas 78238-5166

----- Original Text -----

From: "Frank Farber" <fmf@TMC6.astm.cmri.cmu.edu>, on 9/24/01 9:17 AM:

Mark:

This raises a question about the units definition for seq. nos. 360 to

seq. nos.680 to 795. The footnote B on form 4 indicates Transformed Units, but

there is a mixture of units defined for this range of fields. Should all show

'TRANS UNITS' for the units definition?

Some parameters have transformations and some don't. What would your preference be if no transformation exists for a parameter? Stay with original units? I would prefer original units if there is no transformation applied to a parameter. It appears we have a mixed bag of solutions in production now.

Frank

----Original Message----

From: MGriffin@swri.edu [mailto:MGriffin@swri.edu]

Sent: Friday, September 21, 2001 2:20 PM

To: crichtberg@swri.edu; daho@chevron.com; dwsilver@ashland.com; cisco@txdirect.net; fmf@TMC6.astm.cmri.cmu.edu; GRLF@chevron.com; James.Gerry@cnacm.com; jjf@lubrizol.com; jwbeckrsi@home.com; jwwhite@swri.edu; Lika.Barnabishvili@Infineum.com; mgriffin@swri.edu; mgs@lubrizol.com; Maryse Shull@Ethyl.com; michael.j.burk@exxonmobil.com; mjka@chevron.com; Patrick Herbez@Ethyl.com; ralph.t.grace@esso.com; Renee.Hauserman@Infineum.com; Sally.Lloyd@PerkinElmer.com; sdp@TMC6.astm.cmri.cmu.edu; vmh@lubrizol?com Cc: jac@TMC6.astm.cmri.cmu.edu + Subject: fwd: mllegr report forms and data dictionary revisions

Frank, Here's our IT group feedback for the M11EGR beta.

(1) Noticed in the what changed that 'MERITS' is listed as units for two of the

new field definitions added to form 4 (ind. correction factors), while

others for avg top ring weight loss fields added were defined with 'mg' units.

Was this a type-o?

Medium - Low Priority		Add ress Date
Electronic Data Transmission Methods Compusts	T.	10-200 1
		04-200 23
Electronic Test Scheduling		10-2002
Extended Test Length Report Forms & Data	*	\$2000
Dictionary		4
ADDRE SEFFERM REPRESENT		10-2002
Digitized Signatures		12 -2002
		()

14
1/1
-